

California Department of Forestry & Fire Protection



CDF OSFM FIRE ENGINEERING

The CDF Office of the State Fire Marshal Fire Engineering Division administers licensing programs and performs engineering functions affecting consumer services and product evaluation, approval and listing. The program requires staff with academic training in fire protection engineering and other disciplines, as well as technical expertise in laboratory testing procedures. Principles of fire engineering are also used to reduce or eliminate the hazards and risks of wildfire by causing a change in the fire environment through:

- 1) removing or reducing the heat source,
- 2) modifying or reducing the fuels,
- 3) modifying the act or omission allowing the heat source to come into contact with ignitable fuels.

The proper application of civil, mechanical, electrical, chemical and industrial engineering techniques can reduce the number of ignitions caused by hazardous conditions or operations. Additionally, the Fire Engineering Division combines ignition management and fire hazard and risk through fuel modification, vegetation management and hazard reduction.

